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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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NEW YORK, 1			ART UNIT PAPER NUMBE		
				2654	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Applic	cation No.	Applicant(s)			
065 4-4' 0	09/47	1,030	WAKAI ET AL.			
Office Action Summary	Exam	iner	Art Unit			
		nt M. Spooner	2654			
The MAILING DATE of this comm Period for Reply	ınication appears on	the cover sheet with the c	orrespondence ad	idress		
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE  - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this conclusion. If NO period for reply is specified above, the maximum Failure to reply within the set or extended period for reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF ns of 37 CFR 1.136(a). In n mmunication. statutory period will apply a bly will, by statute, cause the s after the mailing date of th	THIS COMMUNICATION o event, however, may a reply be tim nd will expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).			
Status						
<ul> <li>1) ⊠ Responsive to communication(s) f</li> <li>2a) ☒ This action is FINAL.</li> <li>3) ☐ Since this application is in condition closed in accordance with the practice.</li> </ul>	2b)☐ This action n for allowance exc	is non-final. ept for formal matters, pro		e merits is		
Disposition of Claims						
4) ☐ Claim(s) 1-19,23-41 and 45 is/are 4a) Of the above claim(s) is. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19,23-41 and 45 is/are 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to rest	are withdrawn from rejected.	consideration.				
9) ☐ The specification is objected to by the specification is objected to by the specific of	e <u>r 1999</u> is/are: a)∑ ection to the drawing( ng the correction is red	s) be held in abeyance. See quired if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).		
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (B) Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date	•	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	<b>)-152</b> )		

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#### **DETAILED ACTION**

#### Response to Arguments

1. Applicant's arguments filed 7/2/04 have been fully considered but they are not persuasive.

In response to applicant's arguments, p.13. para 3, "Namba and Jackson are not seen to disclose or suggest at least the features of (i) generating a status concept instance from a status of an apparatus or a program executed in the apparatus, (ii) generating an input concept instance from a sequence of at least two types of information, which is input from each of a plurality of input means (or units) with an input time, sorted in an input time order, and (iii) unifying the status concept instance and the input concept instance." The Examiner cannot concur. Namba teaches, C.16.line 51-C.17.line 8, (i)-his prepared suitable knowledge..., C.16.line 51-C.17.line 8-status concept instance as his information in his information instruction table (ii) his numerals as variable descriptions, his "this" as macro description "@ proximal relationship", his "August 26" coinciding with the functional description "@ today", these input's as related to concepts in any input, , (iii) the unification thereof necessarily imposed as his coincidence algorithm unifies the status concepts or program executed in the apparatus (his performed... instruction information table) with the actual input concepts, hence the coincidence or unification.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 10-19, 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Namba et al (5,884,249).

As per claims 1 and 23, Namba et al teach an information processing apparatus comprising (figures 1, 2, 9, 13 and 15):

status acquisition means for acquiring a status of said apparatus or a program executed therein (C.16.lines 51-53-his description of the semantic analysis unit, C.15.lines C.40-lines 40-47):

status concept instance generating means for generating a status concept instance from the status of said apparatus or the program acquired by said status acquisition (ibid, C.16.line 51-C.17.line 8-status concept instance as his information in his information instruction table):

a plurality of input means for inputting different types of information (his voice recognition section 1, his touch panel section 2, his keyboard section 3, col. 6, lines 50 to col. 7, line 1 5)-,

storage means for storing information input from each of said plurality of input means with an input time thereof (his recognition selecting section 4, \*1. 2, lines 10-19, lines 24-32, his input time stamp recognition); and

sorting means for sorting at least two types of information (C.12.lines 62-67-voice, sound, music-the Examiner has interpreted voice, and applause as two different types of information-the extraction/division thereof is interpreted as the sorting thereof) stored in said storage means in an order in accordance with the input time (time-stamped and concurrent signals, simultaneous input is interpreted as the time accordance of the sorting, the order being, C.14.lines 1-5, the respective divided (or extracted) information, the respectivity indicating the order, based upon the input time (C.13.lines 54),

input concept instance generating (C.16.line 61-C.17.line 8, Fig. 3 input as "detail this", "this" as falling in a concept group of "@ proximal relationship") means for generating an input concept instance from a sequence (col. 7, lines 15-24, his recognition result selecting section 4 and his semantic analyzing section 5, col. 8, lines 38-46, lines 61- 67, col. 10, line 35-50, C.16.line 61-C.17.line 8-his input of "this" as an input concept instance as it relates to macro description "@ proximal relationship") of the at least two types of information (C.13.lines 64, 65, C.14.lines 30-37-divided operation is interpreted the sorted/extracted information) sorted in the input time order (C.14.lines 17-55, ""this" indicates data around the coordinate (12, 23), based on the time "14(H): 25(M): 34 (S)" at which time the touch-panel was touched, and the estimated time stamp "14(H):25(M):33(S)" for "this""-Interpreted as the time order, and this information has been sorted in the input time order, -C.14.line 65-c.15.line 37-"this here"-sequence-which is sorted in an order accordance with the input time, c.15.lines 40-47-analysis) by said sorting means; and

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concept instance unifying means for unifying the status concept instance and the input concept instance (C.16.line 61-C.17.line 8-his coincidence algorithm as the unifying means).

As per claim 10, Namba teaches claim 1, and further teaches wherein said status acquisition means acquires the status of said apparatus at an input time (Fig. 3-his "detail this" and input time, C.13.lines 2-13).

As per claim 11, Namba teaches claim 1 and further teaches status storage means for storing a past status (C.8.lines 26-34-his storage area, and control information as status stored and read out, C.7.lines 55-67-his ... previously held instructions...) wherein said status concept instance generating means generates the status concept in accordance with the past status read from said status storage means (ibid, Fig. 3-his instruction contents, detail and display concept-generated from the previously held instructions).

As per claim 12, Namba et al teach wherein said input means can input key information (figure 1, his inputting means group 121).

As per claims 13, 16 and 17, Namba et al teach wherein said input means can input character information by converting the key information (figure 1, his touch panel 2 and his keyboard 3).

As per claim 14, Namba et al teach wherein said input means can input speech information (His voice recognition 1)).

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As per claim 15, Namba et al teach wherein said input means can input character information by recognizing the speech information and converting the speech information into character information (his inputting means group 121).

As per claims 18-19, Namba et al teach wherein said input means can input handwritten information (figure 15, a graphic recognition section 143 which recognizes hand-written or printed characters of figures at col. 27, lines 38-67).

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Namba et al (5,884,249) in view of Jackson et al (6,292,767 B1).

As per claim 2, It is noted that Namba et al teach the claimed invention but do not explicitly teach wherein said input analyzing means includes: "input information concept instance generating means for generating a concept instance from each piece of the input information"; and "concept instance unifying means for unifying a plurality of generated concept instances. However, these features are well known in the art as evidenced by Jackson et al who teach:

"input information concept instance generating means for generating a concept instance from each piece of the input information" (figure 3, his interpretations 270, col. 3, lines 4-22); and

"concept instance unifying means for unifying a plurality of generated concept instances" (col. 3, lines 22-58, his user specification of application semantic comprising several computer resident files). Therefore, one having ordinary skill in the art at the time the invention was made would have it obvious to incorporate into the input information analyzing unit of Namba et al the user specification as taught by Jackson et al because it would provide a development system that allow a developer to easily create natural language understanding systems.

As per claim 3, Jackson et al teach wherein the concept instance includes a type of a slot and an instance corresponding to the slot of the type (col. 3, lines 4-22, his command type slot 340 with a value "transfer")

As per claim 4, Jackson et al further comprising:

"a database for storing the input information and information necessary for generating the concept instance, in one-to-one correspondence"; (figure 4b, his user specification of applications semantics, col. 3, lines 37 to col., 4, line 20), and

"retrieving means for retrieving information necessary for generating the concept instance corresponding to the input information, from said database, (col. 3, lines 45-57).,

wherein said input information concept instance generating means generates the concept instance in accordance with the information retrieved from said database (col. 3, line 22 to col. 4, line 20).

As per claim 5, Jackson et al teach wherein said database stores a concept type, a rule necessary for the concept instance, and a rule necessary for a surface layer

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word, respectively corresponding to a surface layer character string. (col. 3, lines 22 to col. 4, lines 20, his slot definition file 420, his grammar file 430 and his slot classes 440).

As per claim 6, Jackson et al teach wherein said unifying means unifies the concept instances in accordance with the rules (figures 4a and 4b, col. 3, line 22-57).

As per claim 7, Jackson et al teach wherein said database stores, as a definition of a concept, a slot type of a slot which the concept instance can have, and a rule which is required to be satisfied by the instance corresponding to the slot (figures 4a-4b, col. 3, lines 22-27, his slot definition file and his grammar file).

As per claims 8, Jackson et al teach wherein said unifying means unifies the concept instances in accordance with the rule designated by the definition of the concept corresponding to the type of the concept of the concept instance (col. 3, lines 22 to col. 4, lines 20).

As per claim 9, Jackson teach wherein said unifying means selects an applicable request in accordance with requirements of a plurality of rules, applies the selected request and unifies the concept instances (col.3.lines 22 to col. 4. line 20)

6. Claims 24-41 and 45 are the same in scope and content as claims 1-19 above and therefore are rejected under the same rationale.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamont M. Spooner whose telephone number is 571/272-7613. The examiner can normally be reached on 8:00 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571/272-7602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ims 6/5/05